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**From:** Hamilton, John (IHS/PHX) [John.Hamilton@ihs.gov]  
**Sent:** 1/15/2014 9:10:58 PM  
**To:** Lee, Bessie [Lee.Bessie@epa.gov]; Hughes, Adam (IHS/PHX) [Adam.Hughes@ihs.gov]; Andrew Gashwazra [agashwazra@htha.org]; April Ahownewa [aahownewa@hopi.nsn.us]; Arnell Sieweyumtewa [asiewe\_3@yahoo.com]; Belma Navakuku [bnavakuku@yahoo.com]; Bill Bettenberg [BBettenberg@homerlaw.com]; brad.rea@ihs.gov; Bruce Fredericks [bruce.fredericks12@gmail.com]; Carmelita Coochyumtewa [c.cooch01@yahoo.com]; Christine Tawahongva [ctawahongva@gmail.com]; Chuck Villa [kanzawindkaw@yahoo.com]; Clayton Honyumtewa [chonyumtewa@hopi.nsn.us]; Cristal Quinn [cristal\_a.\_quinn@hud.gov]; David Talayumtewa [david.talayumtewa@bie.edu]; Honahnie, De Alva (IHS/PHX) [DeAlva.Honahnie@ihs.gov]; Dennis Rodriguez [dennis.rodriguez@bia.gov]; ecal@moenkopidevelopers.com; Eldine Stevens [eldine.stevens@bia.gov]; Elizabeth Wadsworth [servicescoordinator.wadsworth@gmail.com]; Matson, Eric (IHS/PHX) [Eric.Matson@ihs.gov]; Everett Calnimpewa [ecalnimpewa@hotmail.com]; Frederick Tack [frederick.tack@ghd.com]; Gail Poley [gpoley4@yahoo.com]; Garlyn Navakuku [garlyn.navakuku@bie.edu]; GSHonanie@hopi.nsn.us; Glenn Allison [glenn.allison@bie.edu]; Ivan Sydney [isfmcv@hopitelecom.net]; Jacquelyn Lamson [jmsumatzkuku@yahoo.com]; DeCoteau, Jesse (IHS/PHX) [Jesse.Decoteau@ihs.gov]; John Graves [john.gravesjr@bia.gov]; John Krause [John.Krause@bia.gov]; Kathlene Sumatzkuku [kasumatzkuku@gmail.com]; Kerry Brough [kerry.brough@ghd.com]; Kim Secakuku [secakukukim@yahoo.com]; King Honani, Sr. [csasipaulovi@gmail.com]; Kristin Sieweyumtewa [sieweyumtewa@hotmail.com]; Leroy Sumatzkuku [lsumatz@myway.com]; Leslie Nasingoetewa [lnasingoetewa@hopi.nsn.us]; Lillian Dennis [lidennis@hopi.nsn.us]; Reeves, Linda [Reeves.Linda@epa.gov]; lpuhuyesva@hopi.nsn.us; Lorena Naseyowma [lnaseyowma@frontiernet.net]; Lynette Pollari [pollari@tp-studio.com]; Marvin Naqua-Hyeoma [mnaquahyeoma@yahoo.com]; Mary Navanick [MNavanick@hopi.nsn.us]; Melvin Todacheene [Melvin.Todacheene@bia.gov]; Micah Lomaomvaya [csa@songoopavi.org]; Michael Janes [michael.janes@ghd.com]; Mike Luecker [mike.luecker@az.usda.gov]; Ms. Bonnie Secakuku [bjsecakuku@yahoo.com]; Ms. Loretta Orona [loretta.orona@az.usda.gov]; Patrick Thompson [sipauloviwater@gmail.com]; PERKINS, SUSANNE [Perkins.Susanne@epa.gov]; Mitchell, Peter J (IHS/PHX) [Peter.Mitchell@ihs.gov]; Phyllis Wittsell [wittsellp@yahoo.com]; Randy Wolff [randy@experiencehopi.com]; Rex Wahl [charles.wahl@bia.gov]; Lorenz, Robert (IHS/PHX) [Robert.Lorenz@ihs.gov]; Robert Mahkewa [mahkewajr@yahoo.com]; Ronald Wadsworth [tsivookvasa@yahoo.com]; Royce Jenkins [royce\_jenkins@hopi.nsn.us]; Sherilyn Honanie [shonanie@hopi.nsn.us]; Sherwin Heaton [s-mheaton@centurylink.net]; Shungopavi Administration [shungopaviinfo@gmail.com]; Susan Secakuku [secakuku@hopitelecom.net]; Suzanne Jamison [sznjmsn@gilanet.com]; UMowa@hopi.nsn.us; uppermoenkopi@yahoo.com; Vern Mansfield [mansfieldvern@yahoo.com]; Wayne Taylor [wtaylorjr@htha.org] [wtaylorjr@htha.org]; Wendell Honanie [Wendell.Honanie@bia.gov]; Yvonne Day [yday@hopi.nsn.us]; Yvonne Hoosava [yhoosava@yahoo.com]; Honanie, Herman (Hopi Tribe) [HHonanie@hopi.nsn.us]  
**Subject:** Call Summary - Hopi Water Infrastructure Projects - Thursday, January 9, 2014

**Next Call** - The next call will be on Thursday, February 6, 2014 at 9:30 a.m. Hopi time (MST). Bessie will forward call-in information.

**Participates included:**

Hopi Water Resources Program – Uberta Mowa  
Hopi Finance – Yvonne Day and Marie  
Upper Moenkopi – Gov. Lewis, Ronalyn Rios and Benard Jackson  
Lower Village of Moenkopi – Lorena Naseyowma  
Shungopavi – Micah Lomaomvaya, Leslie Nasingoetewa and Vern  
Sipaulovi – King Honani, Suzanne Jamison and Mafa Natoni  
Hopi Tribal Housing Authority - Wayne Taylor  
USDA-RD – Loretta Orona  
Indian Affairs – Eldine Stevens  
IHS - Adam Hughes, Eric Matson and Jesse DeCoteau  
Consultants – Kerry Brough, Fred Tack, Lynette Pollari, Mark Joseph, Bill Bettenberg and Doug  
USEPA - Bessie Lee and John Hamilton

**Hopi Arsenic Mitigation Project (HAMP)**

1. Final water quality results are in for the first new well for the HAMP, well #2, and water quality is very good with arsenic levels well under the maximum contaminant level of 10 parts per billion. While pH is higher than average for public water supplies, it corresponds with levels at First and Second Mesa, and is certainly acceptable. Our hydro-geologist confirmed well capacity is 300 gpm, which is the level expected.
2. Drilling of well #3 has been terminated and the test bore hole will be abandoned and filled with cement as a result of drilling equipment problems. A 2000 foot length of 2 1/2" diameter tremmie pipe broke off in the hole and the driller was unable to retrieve the pipe after trying for about two weeks, so the well has been abandoned at the driller's expense. We plan to move over about 60 feet, on the same parcel, and re-drill the well. Water quality results from the above well #2, which is about one mile to the north, and hydro-geologic sampling of the previous well #3 are indicative of similar good water quality and capacity.
3. The Hopi Tribe is securing a site for another well, although there are no plans to drill a third new well at the present time. This well site would be north and east of well #2, near route 42. We will assure the site is not in the floodplain and is cleared for cultural and biological impacts.
4. Bill said the MOA drafted by Interior had finally been provided to the Hopi Tribe, and the document indicated an interest in connecting the three IA water systems to the HAMP, but no commitment or financial contribution for either planning costs or capital costs. We had estimated the cost to Interior for planning, including engineering, land, cultural, biological and 404 surveys and revision to the EA is \$150,000 and Eldine indicated these funds are available, but not yet committed. BIA/BIE needs to review legal authorities to proceed in light of statutory prohibitions on using appropriated funds for providing water to community water systems. Their appropriations for water infrastructure must be used for direct service to Interior-owned water systems, not Tribal or Indian community systems. It would seem the Hopi Tribe can work with BIA/BIE to assure any capital contribution is attributed to providing water to Interior-owned water systems.
5. The new Hopi Tribal Chairman, Herman Honanie, will be in Washington, DC in late January to advocate for BIA/BIE participation in the HAMP through meetings with the Interior Secretary and Asst. Secretary. He will stress the need to move the HAMP arsenic mitigation project forward, either with Interior participation or without, since the Villages are facing an enforcement deadline of January 2015 for providing water meeting the arsenic MCL. EPA strongly advocates for moving forward on this project, since the Villages are out of compliance and subject to an enforcement action.
6. IHS is revising the project schedule and PER, which will be used for the USDA-RD loan and grant application. After the PER is updated, IHS and EPA would like to meet with the Tribal Council to go over alternative schedules for the project including BIA/BIE vs. not including the Interior Agencies. IHS and EPA, including both Bessie and Roberto Rodriguez (enforcement officer), plan to meet with the Tribal Council regarding completion of the PER, Strategic Plan and EA without including BIA/BIE infrastructure, with the understanding this could be added later if Interior commits to joining the HAMP, should Interior fail to move forward and provide planning funds.
7. IHS engineering staff met with Wayne Taylor, Director of the Hopi Housing Authority (HHA) to determine if they can partner financially in the HAMP, since homes under HHA management will be served. The HHA may be in a position to participate at a later date, although this will need to be confirmed by the HHA Board of Commissioners in an upcoming meeting. HHA funds are not available for planning costs related to HAMP, but they may be available to fund a share of construction costs.

8. The Village of Sipaulovi is interviewing engineering firms and plans to award a contract for completion of a PER for potential USDA-RD funding of water improvements.
9. Shungopavi Village requests an update on the status of the development of a Hopi Public Utility Authority (PUA) from the Tribe. The Tribe has not yet set-aside money to support the PUA, and they need to hire a Director and select a Commission. The authorizing legislation for the PUA/PUC did not specify how the Commission would be selected, so that is an issue that will be considered by the Council. In a related issue, the Tribe is reviewing a draft agreement between the Tribe and Villages for HAMP issues, which could vary for each village. The villages and Tribe will need to decide who will negotiate HAMP issues on their behalf. Micah suggested the Tribe hire a HAMP project manager to be a point of contact for the villages.
10. Shungopavi plans a village meeting on January 15 to discuss water service and the HAMP project, including what additional land may be needed for HAMP infrastructure. The Village recently raised water rates to support operation and maintenance of the water and sewer system, including a new monthly rate of \$20 for water and sewer service, \$15 for piped water only and \$10 for village members that haul water. The Village will consider separate rates for non-village users.
11. Royce Jenkins received a copy of a consulting engineering report from George Mace regarding the provision of electrical power to Tawa 'ovi development and potentially to the HAMP. The report was written by Power Engineering, and may have been contracted by the Hopi Energy and Water Committee, which is a Tribal Council entity. IHS and EPA have not yet seen the report and IHS has been directed by the Tribe to plan for power from electrical generators at the present time. Perhaps Royce can provide a copy of the report to Lionel for distribution to IHS and EPA. Sipaulovi Village also requested a copy. Bill said the Tribe is working on a legal settlement with APS, which did not include a power line extension to the HAMP or Tawa 'ovi.
12. There was a brief discussion of why the HAMP is not providing drinking water to the proposed Tawa 'ovi development, and this has been discussed on past conference call several times. While EPA has been focusing on working with First and Second Mesa villages that are out-of-compliance regarding arsenic, the Tribe can decide whether to include Tawa 'ovi in the HAMP service area. Tawa 'ovi may develop 18 Hopi Housing Authority funded houses within the next few years, and the HAMP may not be completed by that time? IHS staff serve as the HAMP planning and design engineers and the Tribe is the project manager. Funding of sanitation facilities required for new HUD-funded houses is not eligible under IHS appropriations, although IHS can provide technical assistance in this regard.

### **Shungopavi**

1. The elevated water storage tank contractor, Caldwell Tank, will repaint the tank interior this Spring. An alternate pressure system, including a temporary hydro-pneumatic system will be installed and GHD has a cost quote, which will be forwarded to Lionel. EPA DWTSA grant funds will be used for the temporary pressure system. The tank repainting will be at the contractor's expense.
2. The Village asked if funds planned for the HAMP water main extension toward the Cultural Center could be used to purchase residential water meters, and Bessie will check and get back to Micah.

3. Wayne Taylor said the Hopi HA would like to work with the Village to provide much needed new housing.

## **Moenkopi**

### Wastewater

1. The wastewater treatment plant seems to be operating as designed and in compliance with the NPDES permit, although the sand filters have needed maintenance. Bessie suggested Gov. Lewis contact Susanne Perkins regarding the status of the NPDES enforcement action.

### Drinking Water

2. While MDC is still operating both the water and wastewater treatment, distribution and collection systems, the Village would like to get MUA "back on track" within the next 6-12 months. GHD assists with compliance reporting for both the water and sewer systems.
3. The new water storage tank is complete and in service. Both large tanks have been essentially full since the new tank was put into service.
4. Some water service lines have broken as a result of freezing. Have these breaks been under mobile homes, where pipe is exposed to the cold?
5. In order to keep the RO in good operating condition, it's being operated every other day.
6. Operators have started "trial" water meters reading, although homeowners are not yet charged based on the readings.
7. Bessie plans to provide an updated monitoring schedule.

John Hamilton, PE  
EPA Engineering Consultant